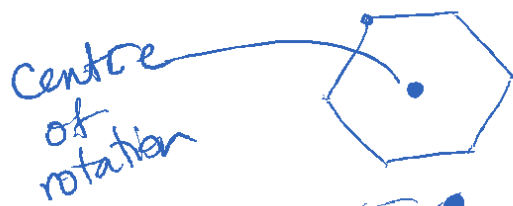


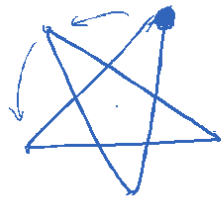
# Rotational Symmetry

December 16, 2015 12:47 PM

- occurs when a shape or design can be turned about the centre of rotation so that it fits onto its outline more than once in a complete turn.
- order of rotation = the number of times a shape or design fits onto itself in one complete turn.

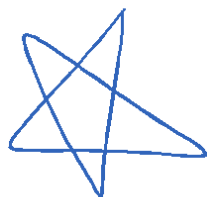


← order of rotation = 6



← order of rotation = 5

- angle of rotation = the minimum angle needed to turn a design onto itself  
 $= 360^\circ$  divided by order of rotation



$$\frac{360^\circ}{5} = 72^\circ = \text{angle of rotation}$$

this is a  $\frac{1}{5}$  rotation  
( $\frac{1}{5}$  of the way around the circle)